

Sir:

Transmitted herewith for filing is the Patent Application of:

Inventor: **YIAN-LIANG KUO, YUNG-SHENG HUANG, YU-TING LIN**

For: **A HEAT SPREADER BALL GRID ARRAY (HSBGA) DESIGN FOR LOW-K INTEGRATED CIRCUITS (IC)**

22141 U.S. PTO  
10/718192  
112003

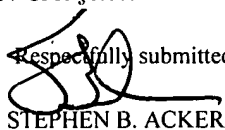
Enclosed are:

- ☒ **1** sheets of drawing(s) - formal.
- ☒ An assignment of the invention to **Taiwan Semiconductor Manufacturing Co.**
- ☐ An associate power of attorney ☐ Applicant claims small entity status
- ☐ Request & Certification under 35 USC 122(b)(2)(b)(i)

The filing fee has been calculated as shown below:

	(Col. 1)	(Col. 2)	OTHER THAN A SMALL ENTITY	
FOR:	NO. FILED	NO. EXTRA	RATE	FEE
BASIC FEE				\$ 770.
TOTAL CLAIMS	56 -20=	36	x 18 =	\$ 648.
INDEP CLAIMS	4 -3=	1	x 86 =	\$ 86.
SUB TOTAL				\$ 1,504.
ASSIGNMENT				\$40.
TOTAL				\$ 1,544.

- ☒ Please charge my Deposit Account No. 19-0033 in the amount of **\$ 1,544.** A duplicate copy of this sheet is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 19-0033. A duplicate copy of this sheet is enclosed.
- ☒ Any additional filing fees required under 37 CFR §1.16.
- ☒ Any patent application processing fees under 37 CFR §1.17.

Respectfully submitted,  
  
STEPHEN B. ACKERMAN, REG. NO. 37,761

EXPRESS MAIL CERTIFICATE

Express Mail No. **EV313927383US**

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to Assistant Commissioner of Patents, Alexandria, VA, 22313-1450. Applicant and/or Attorney requests the date of deposit as the Filing Date.

11/20/03  
Date of deposit

  
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